

REPUBLIQUE DU CAMEROUN

*Paix-Travail-Patrie*

MINISTERE DES ENSEIGNEMENTS  
SECONDAIRES

CELLULE D'APPUI A L'ACTION  
PEDAGOGIQUE  
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**O**

REPUBLIC OF CAMEROON

*Peace-Work-Fatherland*

MINISTRY OF SECONDARY  
EDUCATION

TEACHERS' RESOURCE UNIT  
REGIONAL BRANCH FOR THE  
NORTH WEST

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MARCH 2023

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with NASTA	SUBJECT CODE NUMBER 0510	PAPER NUMBER 2
GENERAL CERTIFICATE OF EDUCATION REGIONAL MOCK EXAMINATION	SUBJECT TITLE BIOLOGY	
ORDINARY LEVEL		

Time Allowed: **TWO and a half hours**  
**INSTRUCTIONS TO CANDIDATES**

Mobile phones are **NOT ALLOWED** in the examination room.

Answer **FIVE** questions; **ALL THREE** from section A and **ANY TWO** from section B.

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**SECTION A**  
**ANSWER ALL THREE (3) QUESTIONS**

1. a) i) Define the term enzyme.  
ii) State the characteristics of enzymes.  
b) How are carbohydrates important to living organisms?  
c) Describe an experiment to show that protein is present in fish. (9, 6, 5 marks)
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2. a) i. Explain the term digestion.  
ii. State the importance of digestion to man.  
b) i) How is the ileum adapted to carry out its function of absorption of nutrients?  
ii) Briefly outline the stages involved in the production of bread. (8, 12 marks)
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3. a) Define the following terms:  
i. Ecosystem.  
ii. Environment.  
b) How is Genetic Engineering useful to man?  
c) Describe the water cycle. (9, 6, 5 marks)

**SECTION B**  
**ANSWER ANY TWO (2) QUESTIONS**

4. a) Draw a large labeled diagram to show the longitudinal section of the mammalian heart.  
b) How do white blood cells differ from red blood cells?  
c) Why is blood important to mammals? (9, 6, 5 marks)
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5. a) Define the following terms.  
i. Respiration  
ii. Breathing  
b) What are the differences between respiration and photosynthesis?  
c) Describe an experiment to show that carbon dioxide is produced by mammals during respiration. (9, 6, 5 marks)
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6. a) Briefly explain the following terms.  
i) Pollination  
ii) Germination  
iii) Fertilization  
b) Describe how the process of fertilization is carried out in flowering plants.  
c) How is the cotton seed adapted to its mode of dispersal? (9, 6, 5 marks)
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7. a) Define the following terms as used in Genetics.  
i) Complete dominance  
ii) Co-dominance  
iii) Heterozygous  
b) When a white-winged Butterfly was crossed with a red-winged Butterfly, all the  $F_1$  offspring had patches of red and white on their wings. When the  $F_1$  offspring mated amongst themselves, some of the  $F_2$  offspring had white wings, some had red wings while the others had red and white patches on the wings. Using appropriate genetic symbols and diagrams, explain these results as best as possible. (9, 11 marks)

END